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Switching Roles

Wright State medical students conduct "Student to Student," an innovative health education project.

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Return to Flight

Aerospace physicians trained at Wright State are advocates for the health and safety of space shuttle astronauts. First in a series.

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Match Day

Marcus Griffith likes what he got on Match Day. See page 8 to find out where Griffith and the rest of the class of 1989 went for their residencies.

An Emerging Leader

After ten graduating classes of medical students, educators at Wright State University School of Medicine point with pride to recent survey results demonstrating that the young school is emerging as a national leader in community-based medical education.

For an eight-year period beginning in 1980, when the School of Medicine graduated its first class of medical students, Wright State ranked second among 127 medical schools nationwide in the percentage of its graduates (29.1 percent) entering family practice residencies, according to a survey published in the journal *Family Medicine*.

This year, as in each of the past five years, Wright State led Ohio medical schools in the percentage of minority students (16.7 percent) enrolled in the entering class, according to the annual Minority Admissions Scorecard published in the journal *New Physician*. Wright State ranked seventeenth among the 127 medical schools nationwide.

"Medical schools throughout the nation are faced with the challenges of increasing minority enrollment and training more primary care physicians who are sensitive and effective clinicians," says Dr. Stephen R. Kaplan, dean of medicine at Wright State. "The School of Medicine is successfully meeting its early goals in these areas. With the commitment of its students, the talents of its faculty, and the excellent clinical resources in the community, Wright State is the right environment to continue to meet these challenges."

"We have a primary care culture here, which is not true of most traditional settings for medical education," Kaplan says. "Our faculty have made great efforts to ensure that our students are exposed to positive role models in primary care medicine."

"The concept of primary care medical education is expanding today to include issues such as women's health care, geriatric medicine, and understanding how complex health care delivery systems work in the community," Kaplan continues. "By continuing to increase its activities in the area of health services research, I believe Wright State can make important contributions in the future to primary care medicine's scholarly base."

Wright State's success in preparing medical students for family practice residencies results from several



Primary care educator: Dr. Richard Gordon (left), assistant professor of family practice, receives the class of 1989's Teaching Excellence Award from Elisabeth Righter. Faculty role models contribute to Wright State's success in preparing graduates for primary care residencies. (See pages 4 and 5.)

Dr. Cheryl Maurana Named Associate Dean for Research



Dr. Cheryl A. Maurana has been appointed associate dean for research at Wright State University School of Medicine effective immediately. In this capacity, she is responsible for facilitating the development of externally funded projects in the areas of biomedical, clinical, and health

services research.

Maurana will also work to foster interdisciplinary projects involving other colleges and schools within Wright State University and to develop collaborative research relationships between the School of Medicine and the local health care community.

Maurana is an associate professor of family practice at Wright State.

"As a community-oriented medical school, Wright State is fortunate to gain Dr. Maurana's leadership in health services research," said School of Medicine Dean Stephen R. Kaplan in announcing the appointment.

"By developing new tools for evaluating health care delivery systems, health services research meets an important community need," Kaplan said. "Dr. Maurana's expertise

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Perspectives

China Watcher

Dr. Glenn Hamilton, professor and chair of emergency medicine at Wright State, led a U.S. delegation of emergency physicians to China in May, at the height of pro-democracy demonstrations in Beijing. The delegation was sponsored by the People-to-People Citizen Ambassador Exchange Program, and its goal was promoting the development of emergency medicine and emergency medical services in China. The *China Daily*, Beijing's official English language newspaper, reported on May 5 that the American group planned to help further the training of emergency medical workers in China.

"We were in Beijing during the May 4 celebration of the 1919 student uprising," Hamilton recalls. "There was a feeling of great exuberance on Tiananmen Square, a feeling of openness and forward-looking excitement that I felt throughout our tour in China."

After returning to Dayton, Hamilton was interviewed by the local media about Beijing's emergency response capabilities during the military crackdown there in early June. "The Chinese are well organized to handle large populations; they have a large number of doctors to call on in an emergency," he explains. "In terms of coordinating equipment and supplies to treat the people who need it the most, though, they probably had a difficult time. There are only forty or fifty ambulances in the city of Beijing, which has a population of nine million. Emergency transport on the back of a bicycle is not atypical."

"I don't think there is an emergency system anywhere in the world that could tolerate the number of emergencies, particularly gunshot wounds, that occurred in Beijing," Hamilton adds.

Hamilton hopes to return to China to continue the work begun by the American delegation, but he's not sure when that can happen. "We can't conduct business as usual now, as if nothing happened in Beijing," he says. "I'd very much like to go back, though. I know that even basic kinds of training programs could help the Chinese make a difference in their emergency medical services." ☐



Dr. Glenn Hamilton



Underwater tests: Dr. Andrew Seter (left) guides a research subject through underwater tests measuring arm strength. Seter's research used Wright State's swimming pool to simulate a weightless environment similar to the conditions in which astronauts will someday work in outer space. (Underwater photo by David Szkudlarek.)

Poolside Research Fathoms Limits of Human Work in Outer Space

The bottom of the swimming pool in the Wright State University gym is a long way from the reaches of outer space, but research conducted there may yield answers about the kinds of work that astronauts can be expected to do in weightless environments.

Dr. Andrew Seter used the pool to study the effects of weightlessness on human strength. Seter recently completed the nation's only civilian aerospace medicine residency program, which is based at Wright State University School of Medicine.

According to Seter, the pool's deep end provided a "pretty good simulation" of a zero-gravity environment such as outer space. "The body is buoyant underwater," he explains. "A scuba diver can establish neutral buoyancy at any depth using a weight belt and a buoyancy compensator, which is like an inflatable life jacket. In essence, you're a free-floating entity underwater."

Seter's research subjects included twenty-one scuba divers, fourteen men and seven women, from Wright State's scuba club. After measuring their body sizes, he tested their arm strengths on land and underwater in a variety of positions. Seter dived with each of his research subjects to guide them through the underwater tests.

"The results showed a significant decrease in the test subjects' strength underwater," Seter says. "The effect of the upper body's weight has essentially been removed underwater, and that probably reduces the amount of force a person can apply to a task using the arms and hands."

In statistical terms there is a significant difference in strength, according to Seter, but the difference may not matter in many practical applications in outer space. "The work tasks an astronaut does in space will

determine whether decreased strength is an important factor," Seter says.

"On the other hand," he continues, "an astronaut's strength is known to diminish more over long periods of weightlessness, because the muscles are not working to counter the force of gravity. The effect of weightlessness on strength could become very significant on long space flights such as a mission to Mars."

With the advent of the space station project in the 1990s, NASA astronauts will perform more construction and maintenance work in outer space, according to Seter. "The robot manipulator arm on the space shuttle will do most of the heavy construction work," he says, "but the astronauts are likely to be called on to do a lot of tasks that are unforeseen now."

The data collected in Seter's research may be used in a sophisticated computer simulation that can predict the kinds of work a person can do, based on body size and strength. The computer program, called Crew Chief, was developed by scientists at the Armstrong Aerospace Medical Research Laboratory at Wright-Patterson Air Force Base.

Crew Chief was designed to match individual flight mechanics with specific aircraft maintenance tasks. It can predict a mechanic's strength while kneeling or reaching overhead, using a variety of tools, whether he is wearing fatigues, chemical defense gear, or heavy winter apparel.

Conducting an independent research project is one of the requirements in Wright State's aerospace medicine residency program, which is recognized worldwide as a training ground for flight surgeons working for NASA and private aerospace industries.

Wright State's program bridged

several diverse interests for Andrew Seter. The Chicago native earned an engineering degree from Northwestern University, and he completed medical school and an internal medicine residency at the University of Illinois College of Medicine.

Seter has been a scuba diver for just one year. "I learned how to swim only two years ago," he says. "I used to have a fear of the water, and now I'm working in it." ☐



School of Medicine Administration

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WSU Medical Students Are Switching Roles

Medical students at Wright State are learning some of the finer points of their profession by switching roles. In classrooms throughout the Dayton area, medical students are becoming teachers for a day, presenting talks on health care topics of urgent interest to young people.

More than 100 Wright State medical students participated in the innovative health education project, called "Student to Student." They visited local classrooms to give talks about drug and alcohol abuse, teen pregnancy, nutrition, and AIDS. Other "Student to Student" talks included smoking, the human body, first aid, and how to become a doctor.

"The demand for talks reflects the concerns of the times. This year the most popular topic by far was drugs, followed by alcohol and teen pregnancy," says Bob Mott, a "Student to Student" organizer.

About one-fourth of the talks were about drugs, according to Mott. The "Student to Student" effort reached more than 7,500 students throughout the Miami Valley area this year.

The greatest demand for "Student to Student" talks came from elementary schools, but the nine health topics covered by the medical



1. **Student to student:** Tipp City high school students toured Wright State's gross anatomy lab during a recent "Student to Student" program. (1) Medical students Nancy Toy (left) and Elena Weaver demonstrate the movement of a human skeleton, and (2) David Hasl and (3) Jane Uva explain anatomic models.



2. students were also geared to age groups ranging from preschoolers to college students, according to Mott.

"We can adapt the talks on AIDS and teen pregnancy for groups as young as the fourth grade," he explains. "We stress questions and answers in all the talks. Believe me, fourth-graders can ask some pretty tough questions about teen pregnancy."

"Kids relate to tangible things," says medical student Dee Wilson. She borrowed human organ specimens from the anatomy lab for "Student to

Student" talks about the human body. She used stethoscopes and other medical instruments for talks to preschoolers about "not being afraid" of going to the doctor.

"Words can't describe the feedback we got from kids after a talk," Wilson says. "We got everything from animal crackers to a thank-you note saying, 'Please tell my mom that the human heart I saw was a real one. She didn't believe me.'"

According to medical student Cindy Smith, another "Student to Student" organizer, the project's value goes

beyond providing a community service. "It exposes us to the kinds of questions we may be asked someday as physicians," Smith says.

Medical students Mark Browne and Scott Bemby believe their involvement in "Student to Student" enriches their training to be physicians.


"There's more to medical school than reading books and taking tests," Browne says. "Doing the talks makes you feel good because you're not just receiving knowledge, you're giving something back."

"Preparing a talk strengthens my understanding of what I've learned in my classes," Bemby says. "If I can explain pregnancy or the effects of drugs in language a high school teenager can understand, I understand, too."

"We're very proud of the students'

involvement in health education," says Dr. Stephen R. Kaplan, dean of Wright State School of Medicine. "The students created this project, and they run it themselves. They're learning communication skills that will make them truly effective as physicians caring for their patients."

"Considering the time and energy that medical students devote to their studies, a volunteer project with the scope of 'Student to Student' is very impressive," says Dr. Charles E. Hathaway, vice-president for academic affairs at Wright State University. "It should inspire all students to reach out and reach back to the community."

The "Student to Student" project is sponsored by the Ohio State Medical Association-Medical Student Section and Wright State University School of Medicine. 



3.

Maurana Continued from page 1

in this area will further strengthen our educational programs for training effective primary care physicians."

Maurana received a B.A. degree in sociology and mathematics in 1972 from Seton Hill College in Greensburg, Pennsylvania. She received an M.S. degree in 1974 and a Ph.D. degree in 1976 in sociology and health services research from Purdue University, where she held a U.S. Public Health Service Fellowship.

Maurana held a number of different posts at Purdue University. As assistant director of the Health Services Research and Training Program there, she conducted research on developing models of health care delivery systems. This research was funded by the National Center for Health Services Research. Maurana also developed a data base and a needs assessment and planning handbook for state and local agencies on aging in Indiana, a project funded by the state of Indiana.

Maurana was senior investigator for a five-year project that implemented and evaluated school health clinics and a community health outreach program for adolescents. The project

was funded by a grant from the Robert Wood Johnson Foundation and was conducted in collaboration with Indiana University School of Medicine and the Marion County Health Department in Indianapolis.

Maurana started the Social Research Institute in the School of Liberal Arts at Purdue. She served as its director and developed a research training program there for faculty and students.

Maurana was appointed as assistant director of the Purdue Research Foundation Division of Sponsored Programs in 1985 and was promoted to associate director the next year. She was responsible for the foundation's \$100 million sponsored programs operations and she developed the Interdisciplinary Center for Research on Aging there.

Maurana came to Wright State University in 1987 as director of the Office of Research and Sponsored Programs. She has published articles and reports on aging, adolescent health, and health planning, among other topics. She serves as a consultant for a number of federal, state, and local agencies. 

Teaching Family Medicine in Yellow Springs

by Vicki Braun

Richard Gordon: Top Teacher



Dr. Richard Gordon

"Medical students challenge you. They ask questions about every aspect of each patient's care," says Dr. Richard Gordon, assistant professor of family practice at Wright State.

"It's exciting and challenging to work with young people who have the bright and inquisitive minds of today's medical students," Gordon adds.

"Working with students keeps you up-to-date. It's a rewarding experience."

Wright State medical students felt the same way about the learning experiences they've had with Gordon. That's why the eighty-six members of this year's graduating class picked Gordon to receive the 1989 Teaching Excellence Award, which is presented annually to a Wright State professor who demonstrates outstanding professional skill and pride.

"Dr. Gordon combines superb clinical knowledge—the scientific basis of medicine—with a keen sense for the humanistic aspects of the profession," says Lisa Righter, president of Wright State's class of 1989. "I learned something new about the practice of family medicine from every patient I examined while working with him."

Righter presented Gordon with the teaching award at this year's student recognition ceremony on June 9. Included with the award was a \$500 cash prize.

Gordon teaches and practices medicine at Wright State's Family Health Center in Yellow Springs, and he is a member of the medical staff at Greene Memorial Hospital in Xenia. He joined the School of Medicine faculty in 1986 after serving as medical director of the Migrant and Rural Community Health Association in Michigan.


The Family Health Center combines a busy, community-based family practice with full-time teaching duties. Wright State medical students rotate through the clinic during their third and fourth years of medical school, working with three staff physicians there.

"Students have opportunities here to see a broad range of patients and medical conditions," Gordon says. "We see patients of all ages and walks of life, from urban and rural

communities. Students at other medical schools sometimes miss the opportunity to see a real family practice in action, especially if they're in a teaching hospital all the time."

The learning experiences available at the Family Health Center are reflected in the career choices made by Wright State graduates. Wright State ranked second out of 127 U.S. medical schools over the past eight years in the percentage of its graduates entering family practice residencies, according to a survey published recently in the medical journal *Family Medicine*.

"We have superb role models to follow in making the choice to enter family practice," says Righter, who began a family practice residency at Grant Medical Center in Columbus in July. "The patient care provided by instructors like Dr. Gordon is inspiring. He is a family person himself, proving that it is possible to have a medical career and a good family life, too."

A native of Urbana, Ohio, Gordon received his M.D. degree from the Medical College of Ohio in Toledo. He served an internship at Harlem Hospital in New York City and a family practice residency at Wright State School of Medicine. He is certified by the American Board of Family Practice. 



Completing the circle: Dr. Cynthia Olsen-Noll (left) with medical student Michele Hawkins at the Family Health Center in Yellow Springs.

Cynthia Olsen-Noll: Completing the Circle

A patient who asks Cynthia Olsen-Noll for a clearer picture of a diagnosis might be surprised with the result. The Yellow Springs-based family physician was once a medical illustrator. She's been interested in both science and art all her life.

Dr. Cynthia Olsen-Noll was recently appointed assistant professor of family practice at Wright State University School of Medicine. Her faculty appointment represents the completion of a circle, for she was a 1985 graduate of Wright State. She won the Dean's Award that year as the student who best embodied the goals of the School of Medicine.

"I never thought I would find one job that would allow me to do everything I wanted," she says. "So many people I know shift from job to job, never finding anything that combines all their abilities and skills. I feel I am able to pull it all together by practicing medicine."

Olsen-Noll was introduced to science by her father, a professor of immunology at The Ohio State University School of Veterinary Medicine. "He helped develop the vaccine for feline leukemia," she notes. "My first jobs were working with him in a lab."

She performed routine lab tasks, and when her father needed illustrations or graphs to accompany presentations, she put to use her childhood hobby of drawing. Although

she had no formal technical training, she had the artistic ability and scientific knowledge to create professional medical illustrations and graphs.

She eventually developed a group of clients who relied on her for fast, accurate drawings. The freelance illustration business paid for her expenses as a pre-med student at Ohio State.

"I operated from the back of a bicycle and showed samples to professors who might need illustration services," she explains. "It was financially rewarding, but restricting artistically. I knew it would not be my career."

She considered research and veterinary medicine before choosing to apply to Wright State School of Medicine. She has never regretted her choice.

"When I took courses involving real patients, I knew I had done the right thing," she says. "And even though I knew I planned to work in primary care, I enjoyed all the subspecialties. I look back and recall enjoying everything from pediatrics to gynecology and surgery. The fact that I liked them all made family practice a logical choice, since it includes a bit of everything."


Olsen-Noll completed her residency in family practice at Good Samaritan Hospital and Health Center in Dayton, where she was chief resident in her

third year. She particularly enjoyed the teaching aspects of her medical residency. "I feel the first few encounters with primary care are critical for medical students, so it's important to make them as positive as possible," she says. "I wanted to share the joy of primary care and deliver the message about how important it is."

Today, the doctor has teaching opportunities every day. Her practice at the Yellow Springs Family Health Center includes working as a one-on-one preceptor for third- and fourth-year medical students from Wright State. She also teaches behavioral science for second-year medical students at her alma mater.

In addition, Olsen-Noll sees patients at the Friends Care Center in Yellow Springs and at the Frederick A. White Center on the Wright State campus. She has staff affiliations at Mercy Medical Center in Springfield and Greene Memorial Hospital in Xenia.

"I feel very fortunate for the many opportunities available for family practitioners today," she says. "For me, the best part is still when I walk up to the exam room and pick up the patient's chart. I never know what I am going to be confronted with."

"Some people enjoy specializing in one thing and doing it every day," Cynthia Olsen-Noll adds. "Not me. I like the challenge of never knowing what I will find next." 

Recognizing the Class of 1989

Three physicians from the Dayton community who helped establish Wright State School of Medicine received the annual Appreciation Award at this year's student recognition ceremony on June 9. They were selected for the honor by the eighty-six graduating members of the class of 1989, the tenth class of medical students to graduate from Wright State.

Drs. Albert Brust, Richard DeWall, and Frank Shively, Jr., practiced medicine in the Dayton area long before Wright State School of Medicine was established in 1974.



1.

Their efforts were instrumental in creating the new medical school, and they later joined the school's faculty.

Brust, the first Eugene F. Kettering professor of medicine at Wright State, retired last year as director of the medical intensive care unit and the internal medicine residency program at Kettering Medical Center. He earned a national reputation as an internist and cardiologist, and he served as president of the American Heart Association's Ohio Affiliate.

Brust assisted Wright State's Department of Medicine in establishing Wright State's integrated internal medicine residency program, which is operated at three hospitals in the Dayton area.

DeWall, clinical professor emeritus of surgery at Wright State, played a major role in the early planning of the medical school. As a representative of Dayton's organized medical community, he co-authored the medical school's original feasibility study, which was submitted to the Ohio legislature in 1969.

DeWall is nationally recognized as a pioneer in cardiovascular surgery. He developed the bubble oxygenator, a

surgical device which provides blood perfusion throughout the body during open heart surgery.

Shively, clinical professor emeritus of surgery at Wright State, was instrumental in recruiting Dayton-area surgeons for the school's voluntary faculty during the early years. He was also a leader in organizing Wright State University's Academy of Medicine, a professional organization of the medical school faculty.

Shively retired from active surgical practice in 1979. He later served a three-year term as president of the board of the Wright State University Foundation.



2.

"It is our special privilege as a young institution to know and honor the individuals who helped to found the medical school," said Dean Stephen Kaplan in his remarks at the student ceremony. "As we look to the future to create a new vision which will carry Wright State School of Medicine into the next century, we stand on the shoulders of those who have gone before us. We are deeply grateful for these individuals and their efforts."

Other award winners honored at the ceremony were:

Lydia E. Hernandez received the 1989 Dean's Award, which is presented to the graduate who embodies the goals of the School of Medicine and who demonstrates integrity, and a dedicated involvement with peers, patients, and the community. She also received the Janet M. Glasgow Memorial Achievement Citation, which is presented annually by the American Medical Women's Association to female medical students who graduate in the top 10 percent of their class.



3.

Recognition ceremony: (1) Dean Stephen R. Kaplan (right) presents Lydia Hernandez with the 1989 Dean's Award. (2) Drs. Albert Brust (second from left), Richard DeWall, and Frank Shively receive the Appreciation Award. (3) Gail Askew Ballengee adds "M.D." to her signature. (4) The class recites the Hippocratic Oath. (5) Dr. Glenn Hamilton was guest speaker.



4.

Mark K. Hirko received the 1989 Upjohn Award, which is presented by the Upjohn Chemical and Pharmaceutical Company to the graduate who made the most significant contribution to medicine while in medical school.

Bonnie Stamatis received the 1989 Geriatric Medicine Award, which is presented by the Ohio Department of Aging to a graduate who demonstrates excellence in the study of gerontology while in medical school.

Karen E. Kirkham received the 1989 PICO Award, which is presented by the Physicians Insurance Company of Ohio to the graduate demonstrating excellence in physician-patient relations during the clinical experience in medical school.



5.


Gail T. Askew received the 1989 Joseph R. Schauer, M.D., Award, which is presented by the Fairborn Area Chamber of Commerce to the graduate who is committed to a career in family medicine and who best demonstrates the qualities of human compassion, personal integrity, and dedication to medical science held dearly by the late Dr. J. R. Schauer.

Dennis W. Wulfeck received the 1989 W. C. Roentgen Award, which is presented annually by Wright State's Department of Radiological Sciences to a fourth-year medical student who demonstrates excellence in preparing a research paper on a radiological topic. The award is named for W. C. Roentgen, the German scientist who discovered the x-ray.

Andrew E. Katz received the Homer Cassel, M.D., Award, which is presented annually by Wright State's Department of Medicine to a fourth-year student who plans a career in internal medicine. The award is named for the late Homer Cassel, M.D., a Dayton-area internist.

Keith D. Wilkey and Mark K. Hirko received the Merck Manual Award, which is presented annually by the Merck Pharmaceutical Company to graduating medical students who exemplify scholastic achievement during their medical studies.

Dr. Richard Gordon, assistant professor of family practice, received the 1989 Teaching Excellence Award. He was selected by the class of 1989 as the faculty member displaying outstanding professional skill and pride in discharging his instructional duties.

The class of 1989 chose **Dr. Glenn Hamilton**, professor and chair of emergency medicine, to be the guest speaker at the student recognition ceremony. 

Return to Flight

Aerospace Physicians at NASA Are Advocates for Astronauts' Health and Safety

by Mark Willis

First in a Series

Dr. Joe Boyce was the first person to board the space shuttle *Atlantis* after it touched down on the dry lake bed at Edwards Air Force Base in California. His heart could have skipped a beat as he walked through the shuttle orbiter's side hatch. The spacecraft was still warm from its fiery descent through the earth's atmosphere. "This thing is as big as an airliner," he thought to himself. "and it was just in space." Boyce remembers the moment as a peak experience in his career as a physician.

Boyce was the NASA crew surgeon for shuttle mission STS-27. He trained with the five-man crew for half a year so they would understand the medical concerns involved in a shuttle flight. He certified their flight readiness and accompanied them to Cape Canaveral. At launch time, he was deployed in a mobile medical unit prepared to handle an emergency on the launch pad. After lift-off, Boyce returned to the Johnson Space Center in Houston, where he followed the mission on rotating shifts around the clock. When *Atlantis* landed at Edwards, Boyce was there to check the crew as they readapted to life on the ground.

"It was a nominal mission from the medical standpoint. Not much to report—and that's the way we planned it," Boyce says. "For me, though, completing the mission was significant, something to check off the list of things you always wanted to do in life."

STS-27 was the second successful shuttle mission after NASA's "return to flight" last year. The phrase is NASA shorthand for the months of self-examination and accelerated training that followed the loss of the space shuttle *Challenger* with its crew on January 28, 1986. The return-to-flight effort scrutinized every aspect of the space shuttle program, introducing new elements to ensure the health and safety of future shuttle crews. The work was done in part by a group of

NASA physicians, including Joe Boyce, who were specially trained in aerospace medicine at Wright State University School of Medicine.

NASA's Recovery

"We are fortunate now to have a larger core group of well-trained people than before the *Challenger* accident," says Dr. Jeff Davis, chief of the Medical Operations Branch at the Johnson Space Center. Davis joined NASA in 1984 after completing Wright State's aerospace medicine residency program, the only civilian program of its kind in the world.

Davis worked on a dozen shuttle missions before the *Challenger* accident, and he led the Medical Operations Branch's activities during NASA's post-*Challenger* recovery. "We pursued twenty-five separate project lines to strengthen our program and put new elements into it," he says. "We developed a new toxicology data base. We refined the shuttle's flight medicine kit, and we worked on the shuttle escape team, a tremendous project that involved the whole Johnson Space Center."

As the return-to-flight effort proceeded, Davis developed a standardized format for training new flight surgeons. He assembled a team of aerospace physicians who could keep up with the workload when the shuttle returned to a brisk flight schedule. "We built a team and rebuilt our program at the same time. I'm proud of the group I have and the people who are in it," Davis says. Most of them began training at Johnson Space Center while they were residents in Wright State's program. Residencies completed, they joined NASA as flight surgeons or were employed by aerospace contractors working on the shuttle program.

When an astronaut crew is named for each shuttle mission, a crew surgeon and deputy are also selected. The crew surgeon becomes the primary care physician who certifies the astronauts for routine flight duty. The deputy crew surgeon assists in

training before the mission. When the shuttle is in orbit, the crew surgeons are joined by a third flight surgeon to staff the surgeon console in Mission Control. The crew surgeons have intimate knowledge of the mission's crew, its payload, and the ever-shifting details of its schedule.

"First and foremost, we are advocates for the crew, for their safety and health," Davis explains. The role is complex, because the crew surgeon must also be an advocate for the mission's life sciences research as well as program concerns about mission success.

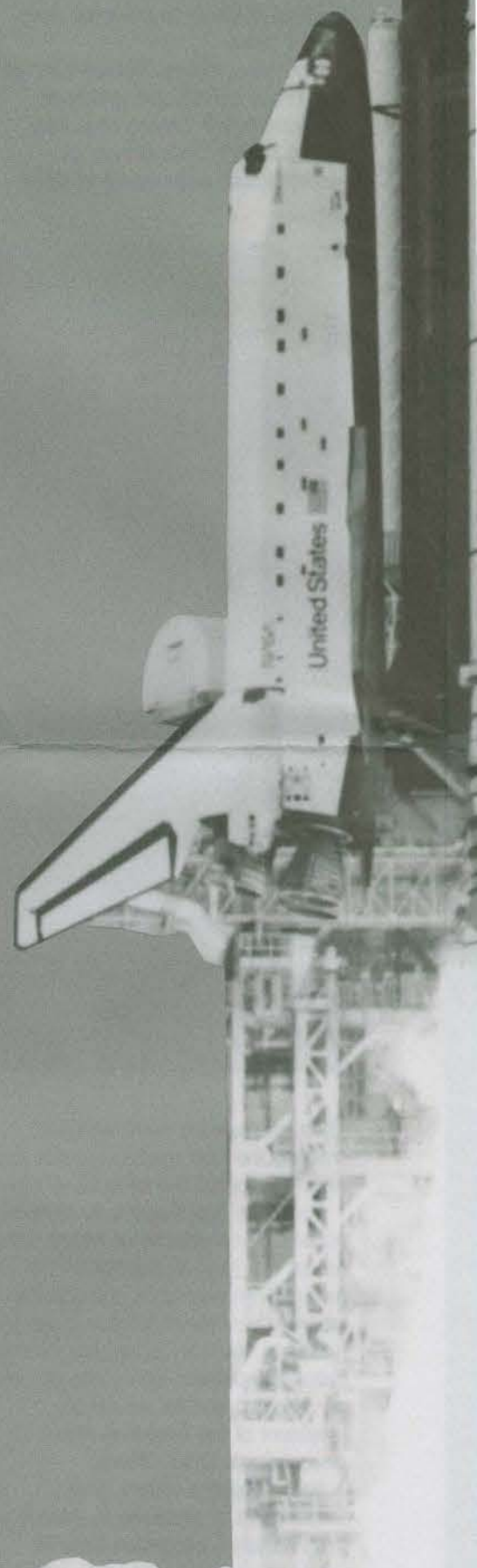
"Sometimes, those three areas come into conflict," Davis says. "That's when the crew surgeon takes on the role of mediator. We get involved in all kinds of issues involving scheduling and training. The schedulers on the shuttle side have definite requirements. They need to move schedules around, which can cause shifts in the astronauts' circadian rhythms. The flyers may need to rest, and that affects the science schedule. There's a lot of give and take in the planning, and the crew surgeon often ends up as a negotiator between the crew and the life sciences and program management."

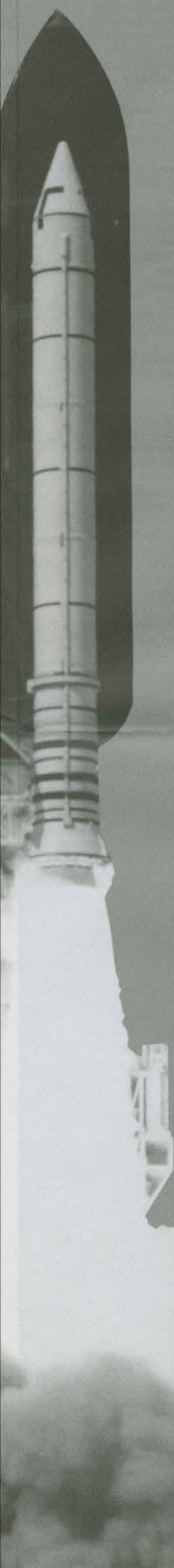
Before the Launch

Most of the work involved in a shuttle mission occurs before the 4.5 million-pound launch vehicle ever leaves the ground. The crew is briefed on the medical and safety aspects of space flight, including use of the shuttle's flight medical kit and contaminant clean-up kit. Two astronauts are designated crew medical officers. They receive more intensive training in diagnostic and therapeutic treatment capabilities of the medical kit and the medical checklist, an on-board reference document detailing the steps to follow with various medical problems.

As members of the Mission Control team, the crew surgeon and deputy rehearse mission procedures in flight simulations that go right up to launch time. Long simulations may last thirty-two to fifty-six hours, covering the planned time line for the first two days of a mission. "During simulations, the simulation supervisors throw in malfunctions in all the different subsystems of the orbiter. The Mission Control team has to respond to rapidly changing situations, working out solutions to every contingency," Davis explains.

The simulations were put to the test on STS-26, the first shuttle mission after the *Challenger* accident. The flash evaporator system, one of the systems that cools the orbiter,





malfunctioned. The cabin temperature rose to 85°F, an uncomfortable temperature but not threatening. "We needed to improve the crew's hydration rate," recalls Davis, who was crew surgeon for STS-26. "We had spent six months working on hot cabin scenarios before the return to flight, and it was timely work for us. We had a good plan for managing the situation if the temperature went even higher."

Two weeks before a mission is projected to begin, the crew surgeon participates in NASA management's flight readiness review, when a final launch date is set. One week before launch, the crew begins a health stabilization program monitored by crew surgeons to reduce the possibility of infection before the flight. They stay in crew quarters at Johnson Space Center, and access to them is limited to primary contacts and immediate family members.

Medical Concerns on Orbit

"During the mission itself, if things are quiet, we're like the Maytag repairman," says Dr. Richard Jennings. "We don't have that much to do, and that's the way we want it. That means all the work before the mission has paid off."

Jennings completed Wright State's aerospace residency in 1987. He will cover his second mission as crew surgeon on STS-34, which is scheduled to launch the Galileo space probe in October. During long hours at the surgeon console in Mission Control, Jennings adds, "crew surgeons have to be able to respond immediately when something doesn't go right."

One of the first medical problems encountered in a shuttle flight is space motion sickness. About 70 percent of all first-time flyers in space experience this disruption of the visual, vestibular, and proprioceptive systems, which regulate the body's sense of balance. Tiny stones in the inner ear, otoliths, no longer have weight in the micro-gravity environment of high-earth orbit. The brain perceives a different sensation. The resulting dizziness and nausea affects crew productivity and can cause flight rule changes at the beginning of a mission. Most flyers adapt to the perception change after three days in space, then they must readapt when they return to earth.

Because of the frequency of space motion sickness, shuttle program policy requires a private medical conference between crew and crew surgeon before decisions are made about an unscheduled extravehicular activity (EVA) or early landing during



Crew surgeons: (Above, left to right) Drs. Joe Boyce, Jeff Davis, and Richard Jennings were trained in the world's only civilian aerospace medicine residency program, which is based at Wright State. (Left) The space shuttle Discovery returns to flight after NASA reworked the shuttle program.

the first seventy-two hours of the mission. "An early return may be one solution to a system anomaly on board the orbiter," Jennings explains, "but if the commander or pilot have space motion sickness, it may be better to stay in space and live with the anomaly. The decision is made by the mission management team, with input from the crew surgeons about the crew's readiness."

Other private medical conferences are usually not necessary, because minor problems on orbit are handled by the crew medical officers. All other communication with the orbiter is channeled through the capsule communicator, a fellow astronaut working in Mission Control. "One of the difficulties on console is that there usually isn't much medical data coming down from the orbiter, unless there is a private medical conference," Jennings says. "We get pretty good at reading between the lines. We have to get our medical data by watching the crew's activity levels, paying attention to the astronauts we're seeing on TV and the ones we're not hearing from much. We have to be observant."

On orbit, the shuttle is a unique work environment with its own set of occupational hazards. The crew may come into contact with any number of hazardous materials while conducting experiments on board the shuttle, particularly when the mission includes extensive life sciences research. Crew surgeons review the contents and protocols of all experiments before the mission, and they maintain a toxicology data base at their console in Mission Control. If something breaks or is spilled during an experiment, the crew surgeon can readily identify the materials involved and the antidotes and treatments needed.

Returning to Earth

A final medical consideration comes when the crew prepares to land the orbiter. The astronauts sit in upright positions as they fly the shuttle back to earth. During reentry, they must perform complex tasks, requiring head-level perfusion of blood, as they simultaneously experience accelerating gravitational forces. The flyers' blood tends to pool in their lower extremities, causing a slight drop in blood pressure at head level. Normally, the body recovers from this blood pressure drop through a reflex mechanism that constricts muscles and increases the heart rate. After several days in space, however, the reflex may not function properly because the astronaut's blood volume

has decreased by about 10 percent, and some cardiovascular deconditioning may have occurred. Flyers experiencing this condition, known as orthostatic intolerance, may feel lightheaded or even pass out during reentry.

"Orthostatic intolerance has been common in space travelers over the years," Jennings notes. "We now compensate for it in two ways. Before landing, the astronauts drink thirty-two ounces of fluid and take eight salt tablets. This helps to bring their blood volume back up. They also wear g-suits, like the ones jet fighter pilots wear, which force the blood upward away from the lower extremities."

Strengthening Ties

The shuttle program's flight schedule is expected to peak at twelve to fourteen missions per year. With the training and preparation required for each flight, a crew surgeon can cover an optimum of two missions a year. With that in mind, Jeff Davis hopes to trim the time required to train new crew surgeons by "back-strengthening" ties with Wright State's aerospace medicine residency program.

"When Wright State residents come down here, we throw them right into the fray, using them in every project and assignment we come up with," Davis says. "They can't function as a crew surgeon, but they work hard in the training mode."

"We're looking at the training program we developed to see if some elements could be integrated into the second year of the residency program, while residents are still in Dayton," Davis continues. "They could begin to learn the subsystems of the orbiter using self-study materials, and we may also develop a faculty exchange program. If nothing else, residents could begin to learn some of the acronyms used at NASA. We're famous for alphabet soup."

Davis, Joe Boyce, and Richard Jennings agree that refining the space shuttle program is a dynamic process that may never end. "It's a mature program now, but the shuttle isn't completely fixed by any means," Davis says. "There's a constant effort to improve and upgrade it, to make it work better."

"It's a process like medicine," Jennings adds. "Even after you graduate, you're a student for the rest of your life, if you want to be any good." ■

Match Day '89



1.

The following list of residency appointments includes hospital locations and medical schools affiliated with residency programs.

Daniel B. Allen, M.D.; surgery; Highland General Hospital (Oakland, CA); U. of California, San Francisco.

Gail T. Askew, M.D.; family practice; St. Elizabeth Medical Center (Dayton, OH); Wright State U.

Gregory B. Ballengee, M.D.; obstetrics/gynecology; Wright State U. affiliated hospitals (Dayton, OH).

Robert K. Bechtel, M.D.; surgery; Wright State U. affiliated hospitals (Dayton, OH).

Mark J. Binette, M.D.; medicine; Good Samaritan Medical Center (Phoenix, AZ); U. of Arizona.

Daniel C. Bowen, M.D.; obstetrics/gynecology; Bethesda Hospital (Cincinnati, OH); U. of Cincinnati.

William F. Brazerol, M.D.; obstetrics/gynecology; Pennsylvania Hospital (Philadelphia, PA); U. of Pennsylvania, Jefferson Medical College.

Thomas M. Brown, M.D.; obstetrics/gynecology; Good Samaritan Hospital (Cincinnati, OH); U. of Cincinnati.



2.

Ronald C. Carissimi, M.D.; family practice; St. Elizabeth Medical Center (Dayton, OH); Wright State U.

David C. Coffey, M.D.; family practice; St. Elizabeth Medical Center (Edgewood, KY); U. of Kentucky.

Brian K. Collier, M.D.; medicine; U. of Tennessee Memorial Hospital (Knoxville, TN); U. of Tennessee.

Lawrence M. D'Amico, M.D.; surgery; Mercy Hospital (Pittsburgh, PA); U. of Pittsburgh.

Toya J. Danzey, M.D.; obstetrics/gynecology; Henry Ford Hospital (Detroit, MI); U. of Michigan Medical School.

Mark E. Davis, M.D.; family practice; Grant Medical Center (Columbus, OH); Ohio State U.

Andrew D. DeMarco, M.D.; medicine; Akron City Hospital (Akron, OH); Ohio State U., Northeastern Ohio U. College of Medicine.

Paul T. Ellis, M.D.; surgery PGY-1; urology PGY-2; West Virginia U. Hospital (Morgantown, WV); West Virginia U.

Mark A. Erickson, M.D.; orthopaedic surgery; Miami Valley Hospital (Dayton, OH); Wright State U.

Mark A. Esposito, M.D.; obstetrics/gynecology; Sinai Hospital (Baltimore, MD); U. of Maryland, Johns Hopkins U.

Susan M. Fudge, M.D.; pediatrics; Wright State U. affiliated hospitals (Dayton, OH).

Samuel E. Gayton, M.D.; family practice; Cheyenne Family Practice Program (Cheyenne, WY).

William R. Getson, M.D.; family practice; Barberton Citizens Hospital (Barberton, OH); Northeastern Ohio U. College of Medicine.

Ronald P. Golovan, M.D.; medicine; Mount Sinai Medical Center (Cleveland, OH), Case Western Reserve U.

Marcus C. Griffith, M.D.; psychiatry; U. of Cincinnati Hospital (Cincinnati, OH); U. of Cincinnati.

Penny L. Hahn, M.D.; medicine; Good Samaritan Hospital (Cincinnati, OH); U. of Cincinnati.

John E. Harpring, M.D.; surgery; U. of Louisville (Louisville, KY).

Jeffrey A. Hatcher, M.D.; obstetrics/gynecology; Wright State U. affiliated hospitals (Dayton, OH).

Lydia E. Hernandez, M.D.; surgery; Wright State U. affiliated hospitals (Dayton, OH).

Mark K. Hirko, M.D.; surgery; Akron City

Hospital (Akron, OH); Ohio State U. COM, Northeastern Ohio U.

Brian D. Jenkins, M.D.; anesthesiology; Indiana U. Medical Center (Indianapolis, IN).

H. Stanley Jenkins, M.D.; surgery; Wright State U. affiliated hospitals (Dayton, OH).

Mark S. Jones, M.D.; psychiatry; Eastern Virginia Graduate School of Medicine (Norfolk, VA).

Breton C. Juberg, M.D.; obstetrics/gynecology; Bowman Gray/North Carolina Baptist Hospital (Winston-Salem, NC); Wake Forest U.

Adam J. Kaplan, M.D.; surgery; Medical U. Hospital (Charleston, SC); Medical U. of South Carolina.

Andrew E. Katz, M.D.; medicine; Cleveland Metropolitan General Hospital (Cleveland, OH); Case Western Reserve U.

David M. Kennedy, M.D.; medicine; Western Reserve Care System (Youngstown, OH); Case Western Reserve U.

Karen E. Kirkham, M.D.; medicine; Wright State U. affiliated hospitals (Dayton, OH).

Jeffrey E. Kittle, M.D.; family practice; St. Mary's Hospital (Grand Rapids, MI); U. of Michigan Medical School.

Terry W. Kuhlwein, M.D.; family practice; Grant Medical Center (Columbus, OH); Ohio State U.

John H. Lee, M.D.; orthopaedic surgery; Stanford U. Hospital (Stanford, CA); Stanford U.

Deborah A. Lenart, M.D.; obstetrics/gynecology; U. of Texas Southwestern Medical School (Dallas, TX).

James E. Lisi, M.D.; medicine; Cleveland Metropolitan General Hospital (Cleveland, OH); Case Western Reserve U.

Mary Jo Swartz Logee, M.D.; family practice; Aultman Hospital (Canton, OH); Northeastern Ohio U.

James P. MacKessy, M.D.; family practice; Grant Medical Center (Columbus, OH); Ohio State U.

1989 Residency Graduates

Legend: CMC—Children's Medical Center, DVAMC—Dayton Veterans Administration Medical Center, GSHHC—Good Samaritan Hospital and Health Center, GMH—Greene Memorial Hospital, KMC—Kettering Medical Center, MVH—Miami Valley Hospital, SEMC—St. Elizabeth Medical Center, WPAFB—Wright-Patterson Air Force Base Medical Center.

Integrated Aerospace Medicine Residency Program. Director: Stanley R. Mohler, M.D. Affiliation: GSHHC. Graduates: James Graves, M.D.; Yong Ho Lee, M.D.; Akira Miyamoto, M.D.; Andrew Seter, M.D.; Barbara Stegmann, M.D.; Alex Tsai, M.D.

Integrated Anesthesiology Residency Training Program. Director: A. Keith Callender, M.D. Affiliation: KMC. Graduates: Timothy Mercer, M.D.; Brian Ormond, M.D.

Integrated Dermatology Residency Program. Director: Arnold L. Schroeter, M.D. Affiliations: CMC, GSHHC, SEMC, WPAFB, DVAMC. Graduates: Jayne S. Fortson, M.D.; Jesse D. Mitchell, M.D. Awards: Patricia Dickerson, M.D., token of appreciation for her superior role as chief resident.

Integrated Residency in Emergency Medicine. Director: Glenn C. Hamilton, M.D. Affiliations: CMC, GSHHC, GMH, KMC, MVH, SEMC, WPAFB. Graduates: Frank Domzalski, M.D.; Bob Dupper, M.D.; Gary Gaddis, M.D.; Joan Kolodzik, M.D.; Steve Orebaugh, M.D.; James Schlesinger, M.D.; Denis Stizza, M.D.; Pamela Stuart, M.D. Awards: Gary Gaddis and Steve Orebaugh, the Carl Jelenko III, M.D. Academic Excellence Award; Steve Gamm, M.D., the James W. Agna, M.D., Clinical Excellence Award; Frank Domzalski, the Montgomery County Emergency Medical Services Council Award; Mark S. Klug, M.D., the Edward P. Call, Jr., M.D., Teaching Excellence Award; Joan Kolodzik, the Clinical Faculty Award for Clinical Excellence.

Integrated General Surgery Residency. Director: James B. Peoples, M.D. Affiliations: GSHHC, KMC, MVH, SEMC, WPAFB, DVAMC. Graduates: Adam Bianchini, M.D.; Wayne Brearley, M.D.; Denise Grove, M.D.; Douglas Hingsbergen, M.D.; Mauri Lunderman, M.D.; Maria Madden, M.D.; Paul Montany, M.D.; Edward Picardi, M.D.; Douglas Purdy, M.D.; Michael Restey, M.D.; William Rigano, M.D.; Joseph Ritchie, M.D.; Lonnie Stanton, M.D.; Steve Sutherin, M.D.; Joseph VonderBrink, M.D. Awards: John H. Taylor, M.D., the Albert B. Huffer Outstanding Teacher of Clinical Surgery Award; Mauri Lunderman, the Outstanding Resident Teacher Award; and Edward Picardi, first place award, William C. Rigano, second place award, and Barry S. Greene, third place award, in the Residents Research Symposium.

Integrated Internal Medicine Residency. Director: H. Verdain Barnes, M.D. Affiliations: DVAMC, GSHHC, MVH. Graduates: Antoine Alhajje, M.D.; Arvind Agarwal, M.D. (cardiology fellow); Ravi Bolla, M.D.; Daniel Carrigan, M.D. (gastroenterology fellow); Daniel Caruso, M.D.; Po Kee Cheung, M.D. (cardiology fellow); Louis Coda, M.D.; Olga Duarte, M.D.; Stephen Fitzgerald, M.D.; Vera Fitzgerald, M.D.; Daniel Lee, M.D.; Carlos Morales, M.D.; Sonia Rayzian, M.D.; Adel Shaheen, M.D.; Roy Shanon, M.D.; Craig Thiele, M.D. Awards: Howard Part, M.D., the A. Robert Davies, M.D., Award; Virginia Wood, M.D., the Malcolm A. Block, M.D., Award; Olga Duarte, the award for Best Resident Scholarly Paper; Antoine Alhajje and Carlos Morales, the Outstanding Senior Resident Award; Khalid Jalil, the Outstanding PGY-1 Award.

Integrated Obstetrics and Gynecology Residency Program. Director: John J. Halki, M.D., Ph.D. Affiliations: MVH, WPAFB. Graduates: Geannie M. Bennett, M.D.; Daniel M. Duffy, M.D.; Gleen G. Elder, M.D.; Nancy L. Eriksen, M.D.; Kevin A. Hallman, M.D.; Lydia G. Slavish, M.D. Awards: for top



3.

Robert S. Martin, M.D.; medicine; U. of Cincinnati Hospital (Cincinnati, OH).

Mark A. Matthews, M.D.; family practice; Barberton Citizens Hospital (Barberton, OH); Northeastern Ohio U.

Lee E. McCrillis, M.D.; pediatrics; U. of Michigan Hospitals (Ann Arbor, MI).

Shawn P. McMahon, M.D.; family practice; Duluth Graduate Medical Education Council (Duluth, MN); U. of Minnesota, Duluth.

David A. McMaken, M.D.; pathology; Kettering Medical Center (Dayton, OH); Wright State U.

Smita P. Mengers, M.D.; pediatrics; Georgetown U. Hospital (Washington, D.C.).

Michael G. Mulligan, M.D.; transitional PGY-1; Riverside Methodist Hospital (Columbus, OH); Ohio State U.; anesthesiology PGY-2; U. Health Center of Pittsburgh (Pittsburgh, PA).

Coveda T. Nelson, M.D.; medicine; Mount Sinai Medical Center (Cleveland, OH); Case Western Reserve U.

Michael S. Nethers, M.D.; obstetrics/gynecology; U. of Louisville (Louisville, KY).

Dzung Nguyen, M.D.; medicine; Medical Center of Delaware (Newark, DE); Jefferson Medical College.

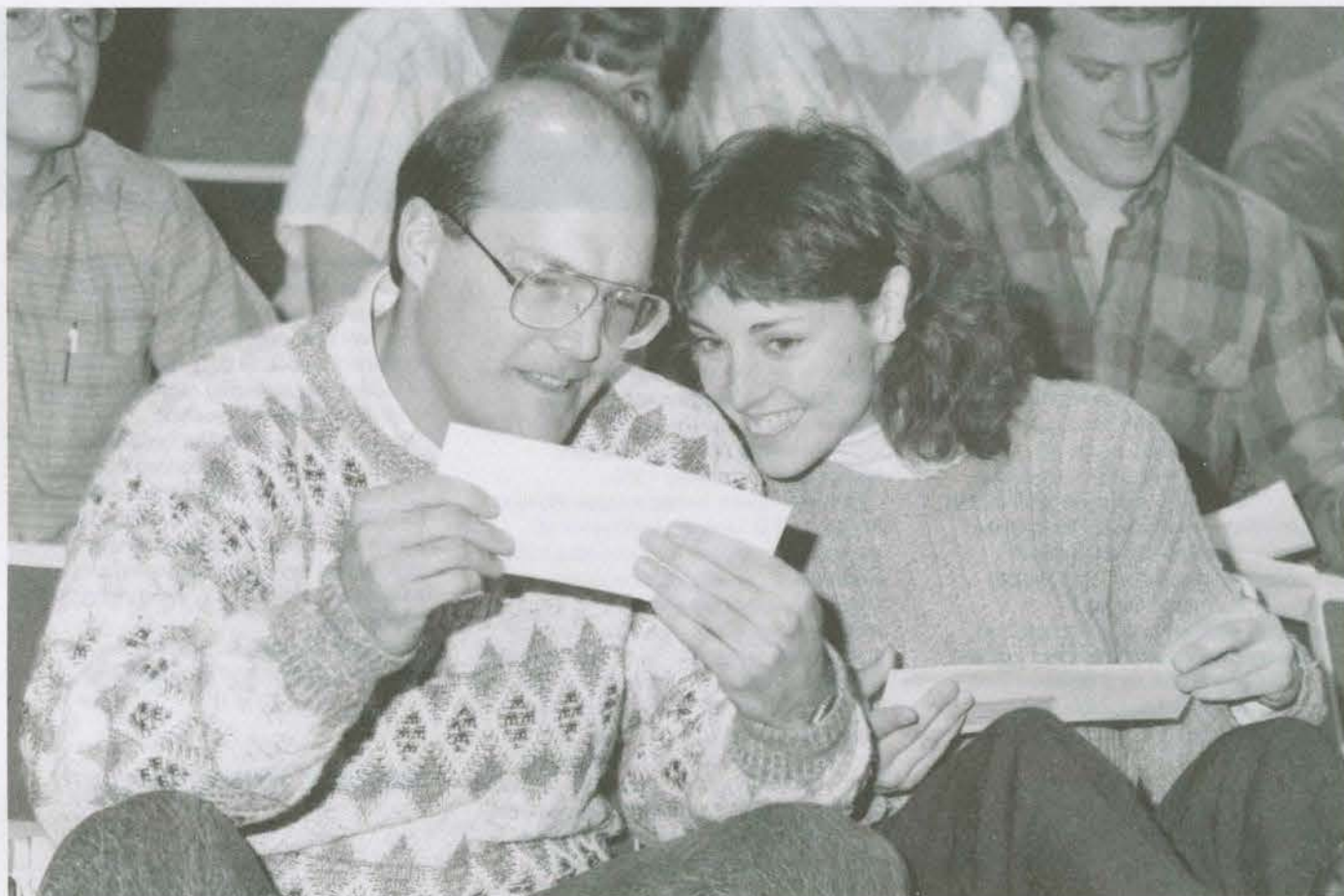
Seth A. Oninku, M.D.; family practice; Good Samaritan Hospital and Health Center (Dayton, OH); Wright State U.

Timothy J. Paolone, M.D.; psychiatry; Medical U. Hospital (Charleston, SC); Medical U. of South Carolina.

Thomas K. Petryk, M.D.; family practice; Grant Medical Center (Columbus, OH); Ohio State U.

Elizabeth A. Pontasch Phillips, M.D.; family practice; Methodist Hospital (Indianapolis, IN); Indiana U.

David B. Phillips, M.D.; emergency medicine; Methodist Hospital (Indianapolis, IN); Indiana U.



4. **Duane P. Pool, M.D.;** medicine; Riverside Methodist Hospital (Columbus, OH); Ohio State U.

Douglas J. Potoczak, M.D.; family practice; Fairview General Hospital (Cleveland, OH); Case Western Reserve U.

Karen Mihalik Potoczak, M.D.; obstetrics/gynecology; Case Western Reserve U. Hospitals (Cleveland, OH).

Harel N. Rachovitsky, M.D.; medicine; Good Samaritan Hospital (Cincinnati, OH); U. of Cincinnati.

John R. Radford, M.D.; pediatrics; Children's Hospital Medical Center of Akron (Akron, OH); Northeastern Ohio U.

Scott R. Reichard, M.D.; medicine; Norfolk Naval Hospital (Norfolk, VA); Eastern Virginia Medical School.

Matthew F. Rhoa, M.D.; obstetrics/gynecology; Hospital of the U. of Pennsylvania (Philadelphia, PA).

Elisabeth L. Righter, M.D.; family practice; Grant Medical Center (Columbus, OH); Ohio State U.

Timothy S. Siegel, M.D.; surgery; Fitzsimons Army Medical Center (Denver, CO).

Bonnie Stamatis, M.D.; medicine; Akron General Medical Center (Akron, OH); Northeastern Ohio U.

Joseph M. Stefko, M.D.; orthopaedic surgery; U. Health Center of Pittsburgh (Pittsburgh, PA).

Lorraine A. Stephens, M.D.; family practice; Bethesda Hospital (Cincinnati, OH); U. of Cincinnati.

Richard D. Stern, M.D.; medicine; Evanston Hospital/Northwestern U. (Evanston, IL).

Michael W. Stevens, M.D.; medicine; Kettering Medical Center (Dayton, OH); Wright State U.

Joseph M. Stewart, M.D.; obstetrics/gynecology; Akron General Medical Center (Akron, OH); Northeastern Ohio U.

Debra L. Sudan, M.D.; surgery; Wright State U. affiliated hospitals (Dayton, OH).

Hassan Tabrizi, M.D.; medicine; Cleveland Metropolitan General Hospital (Cleveland, OH); Case Western Reserve U.

Nina M. Tan, M.D.; family practice; Miami Valley Hospital (Dayton, OH); Wright State U.

Mariellen Taylor, M.D.; medicine; U. Health Center of Pittsburgh (Pittsburgh, PA).

Carmen L. Terlizzi, M.D.; obstetrics/gynecology; St. Joseph's Hospital (Milwaukee, WI); Medical College of Wisconsin.

Donald P. Wharton, M.D.; family practice; Miami Valley Hospital (Dayton, OH); Wright State U.

James R. Whittum, M.D.; orthopaedic surgery; Michael Reese Hospital (Chicago, IL); U. of Chicago.

Keith D. Wilkey, M.D.; transitional PGY-1; Brooke Army Medical Center (San Antonio, TX); U. of Texas Medical School at San Antonio.

Robin Hicks Wright, M.D.; medicine; Good Samaritan Hospital (Cincinnati, OH); U. of Cincinnati.

Dennis W. Wulfeck, M.D.; nuclear medicine PGY-1; U. of Cincinnati Hospital (Cincinnati, OH); radiology PGY-2; U. of Louisville (Louisville, KY).

Terrence A. Yoder, M.D.; pediatrics; Emory U. (Atlanta, GA).

Edward R. Zinn, M.D.; family practice; Barberton Citizens Hospital (Barberton, OH); Northeastern Ohio U.

Michael A. Zoglio, M.D.; psychiatry; U. of California-Davis (Sacramento, CA); U. of California-Davis. ☎

scores on the CREOG examination: Kevin A. Hallman (chief resident); Debra A. Miller, M.D. (PGY-3); Leighanne Glazener, M.D. (PGY-2); Leighanne Glazener, the Phillips K. Champion Teaching Excellence Award.

Integrated Pediatric Residency Training Program. Director: Maurice D. Kogut, M.D. Affiliations: CMC, WPAFB. Graduates: Lori DeBold, M.D.; Brian Esselstein, M.D.; Marie Seiler, M.D.; Anita Turner, M.D.; Rhonda Walton, M.D.; William Gibson, M.D.; Robert Haws, M.D.; Kieran Kammerer, M.D.; Steve Stolz, M.D.

Integrated Psychiatry Residency Program. Director: Paul Rodenhauer, M.D. Affiliations: GSHHC, KMC, DVAMC, WPAFB. Graduates: Daniel W. Knoedler, M.D.; Edward C. Longo III, M.D.; John A. Richmond, M.D.; Warren S. Rogers, M.D.; Dodge A. Slagle, D.O.; Martha E. Tymeson, M.D.; Kenneth B. Williams, M.D. Awards: Daniel Knoedler, the Outstanding Resident Award; Edward C. Longo III, the Behavioral Science and Leadership Award.

Integrated Combined Internal Medicine/Pediatrics Residency. Directors: H. Verdain Barnes, M.D. and Maurice D. Kogut, M.D. Affiliations: CMC, MVH, WPAFB. Graduates: Louis Coda, M.D.; Reuben Hess, M.D.; Seth Rosenberg, M.D.

Good Samaritan Family Practice Residency Program. Director: Michael F. Bosworth, D.O. Affiliation: GSHHC. Graduates: Kevin D. Fiehrer, M.D.; Jane B. Gudakunst, M.D.; Mary F. Sutter, M.D.; J. Michael Thuney, M.D.; Russell S. Yocum, D.O.

St. Elizabeth Family Practice Residency Program. Director: James F. Orosz, M.D. Affiliation: SEMC. Graduates: Thomas L. Brunsman, M.D.; Mary P. Buchwalder, M.D.; Kevin L. Flowers, M.D.; Patricia A. Grice, M.D.; John F. McCarthy III, M.D.; Matthew L. O'Connell, M.D.; James F. Seiler, M.D.; Susan E. Stedje, M.D.; Mary Lou Zwiesler, M.D. Awards: Mary Lou Zwiesler, the Outstanding Resident Award of the Wright State University Academy of Medicine and the Director's Award; John H. Black, M.D., the Faculty Teacher of the Year Award; Mangala Venkatesh, M.D., Robert E. Smith, M.D., and Sharat Kalvakota, M.D., the Teacher of the Year Award for nonfaculty attending physicians.

Kettering Medical Center Internal Medicine Residency. Director: John Shrader, M.D. Affiliation: KMC. Graduates: Catherine

Bachelor, M.D.; Rudy Bohinc, M.D.; Allen Doyle, M.D.; Jay Hoffman, M.D.; John Mauer, M.D.; Neil Nedley, M.D.; Yutaka Niihara, M.D.; Brian Shockey, M.D.; D. Carson Stanford, M.D.; Steven Villegas, M.D. Awards: William Rigano, Steven Villegas, and James Schlesinger, the Helen L. Popoway Research Award; Catherine Bachelor, the Albert A. Brust Internal Medicine Residency Award; Steven Villegas, Ambulatory Medicine Center Resident of the Year; Fred Wagshul, M.D., Internal Medicine Resident's Association Teacher of the Year Award; Samuel Laneve, M.D., Professional Excellence Award.

Kettering Medical Center Pathology Residency Program. Director: S. Wesley Kime, M.D. Affiliation: KMC. Graduates: Bashar Dabbas, M.D.; Zivar Karabatak, M.D.; Suzanne Riley, M.D.

Kettering Medical Center Plastic Surgery Residency Program. Director: James Apesos, M.D. Affiliations: KMC, SEMC. Graduate: Rank Dawson, Jr., M.D.

Kettering Medical Center Transitional Residency Program. Director: Elvin C. Hedrick, M.D. Affiliation: KMC. Graduates: Nicole Bertram-Love, M.D.; Perry Haugen, M.D.; Jonathan Travis, M.D.; Thomas Trevorow, M.D.

Miami Valley Hospital Family Practice Residency Program. Director: Theodore Wymysio, M.D. Affiliation: MVH. Graduates: Steven L. Robbe, M.D.; Timothy A. Heinrichs, M.D.; David S. Page, M.D.; Mark D. Schmidt, M.D. Awards: Mark D. Schmidt, the Resident Teacher Award of the Society of Teachers of Family Medicine.

Miami Valley Hospital Internal Medicine Residency Program. Director: Allen L. Cline, M.D. Affiliation: MVH. Graduates: William Harper, M.D.; Stephen Grable, M.D.

Miami Valley Hospital and Wright State University Orthopaedic Surgery Residency Program. Director: Hobart E. Klaaren, M.D. Affiliations: CMC, DVAMC, MVH. Graduates: Dennis Brown, M.D.; Richard Stockelman, M.D.

USAF Medical Center Wright-Patterson Internal Medicine Residency Program. Director: Stephen McDonald, M.D. Affiliation: WPAFB. Graduates: Lynn M. Baatz, M.D.; Charles F. Botti, Jr., M.D.; Mark A. Bustamante, M.D.; Mark A. Jeffries, D.O.; Michael P. Jones, M.D.; Jeffrey J. Kaufhold, M.D.; Peter M. Lewis, D.O. ☎

Photos

Match Day: (1) The class of 1989 gather around the bust of Hippocrates on Match Day. **Sharing in the festivities are (2)** Karen and Doug Potoczak; **(3)** Smita Mengers (left) and John Lee; **(4)** Mark Erickson and Susan Fudge; and **(5)** Mark Davis (center).



5.

For the Record

Major Proposals Funded

Marshall B. Kapp, J.D., M.P.H. (professor of medicine in society), received \$25,000 from the Commonwealth Fund to prepare a report on the legal and regulatory environment governing home health care.

Ira M. Leffak, Ph.D. (associate professor of biochemistry), received \$20,700 from the National Institute of General Medical Sciences for a renewal of "Replication Polarity of Eucaryotic Genes."

Stanley R. Mohler, M.D. (professor and vice-chair of community medicine), received \$386,556 from NASA for a renewed funding of the aerospace medicine residency program at Wright State University School of Medicine.

Gary L. Nieder, Ph.D. (assistant professor of anatomy), received \$69,122 from the National Institute of Child Health and Human Development for "Embryo Protein Secretion During Implantation."

Daniel T. Organisciak, Ph.D. (professor of biochemistry), received \$105,851 from the National Institutes of Health Division of Research Resources for a renewal of "Environmental Light and Retinal Membrane Development."

Larry J. Ream, Ph.D. (associate professor of anatomy), received \$6,000 from the National Institutes of Health, Division of Research Resources, for a renewal of "Minority High School Research Apprentice Program."

Alexander F. Roche, M.D., Ph.D. (Fels professor of pediatrics and obstetrics and gynecology), received \$581,386 from the National Institute of Child Health and Human Development for a renewal of "Subcutaneous Fat Blood Lipids and Subsequent Outcome"; and \$7,000 for a renewal of "Nutritional Anthropometry in the Elderly."

Roger M. Siervogel, Ph.D. (Fels professor of pediatrics), received \$254,159 from the National Science Foundation for a three-year

project to catalog and preserve radiographic data in the Fels Longitudinal Study of Human Growth and Development. The Fels archive includes more than 100,000 radiographs made since 1930.

Other proposals funded include: **Mark G. Angelos, M.D.** (assistant professor of emergency medicine), received \$34,116 for a renewal of "Fructose Diphosphate Treatment—Myocardial Infarction." **Richard Baumgartner, Ph.D.** (research assistant professor of pediatrics), and **Wm. Cameron Chumlea, Ph.D.** (Fels associate professor of pediatrics), received \$15,518 from Ross Laboratories to test a new caliper for measuring knee height, a measurement used to predict stature in the elderly. **Jack M. Bernstein, M.D.** (professor of medicine), received \$9,364 for "Treatment of Lower Respiratory Tract Infection." **Robert D. Grubbs, Ph.D.** (assistant professor of pharmacology and toxicology), received \$10,000 from the Pharmaceutical Manufacturers Association Foundation, Inc., for a renewal of "Mg²⁺ Transport in Smooth Muscle Cell Line." **Satyendra C. Gupta, M.D.** (associate professor of medicine), and **Agaram Suryaprasad, M.D.** (associate professor of medicine), received \$40,000 from Cyanamid for a clinical study testing the efficacy of Bisoprolol, a beta-adrenoreceptor blocking agent in patients with stable angina; and \$22,000 from Wyeth-Ayerst for clinical research on "Safety and Efficacy of Inderal Phase Dose in Stable Angina." **Charles B. Payne, Jr., M.D.** (professor of medicine), received \$9,091 from miscellaneous sources for "Clinical Study in Patients with Chronic Bronchitis." **Kevin Strange, Ph.D.** (assistant professor of physiology and biophysics), received \$2,000 from the National Kidney Foundation of Ohio, Inc., for "Cell Function in Rabbit Cortical Collecting Tubule."

Committee on Trauma. He is president-elect of the Ohio Chapter of the American College of Surgeons, and will be installed as president next year (5/90).

Enrique Pantoja, M.D. (professor and chair of radiological sciences) received a bronze medal for his scientific exhibit "Reassessment of Factors Governing Interface Resolution," American Roentgen Ray Society annual meeting, New Orleans, LA (5/89). Co-authors of the exhibit were **Ching Po Li, M.D.** (associate clinical professor of radiological sciences) and **Candace L. Kabler, R.T.** (chief radiology technician).

Charles B. Payne, Jr., M.D. (professor of medicine), participated in the National

Tuberculosis Training Initiative (NTTI) to develop a strategic plan for the elimination of tuberculosis, San Antonio, TX (3/28-30/89).



Dr. Jack Bernstein

Faculty Promotions



Dr. Kim Goldenberg



Dr. Jonathan Singer



Dr. Marc Fritz



Dr. Lothar Jennes

Appointments and Awards

1989 Faculty Promotions: **Jack M. Bernstein, M.D.**, to professor of medicine; **Kim Goldenberg, M.D.**, to professor of medicine; **Jonathan I. Singer, M.D.**, to professor of emergency medicine; **Marc A. Fritz, M.D.**, to associate professor of obstetrics and gynecology; **Lothar H. Jennes, Ph.D.**, to associate professor of anatomy.

John D. Bullock, M.D. (professor and chair of ophthalmology), was the American Society of Ophthalmic Plastic and Reconstructive Surgery's representative to the American Academy of Ophthalmology subspecialty society meeting on "Physician Reimbursement and Comprehensive Ophthalmology," San Francisco, CA (2/25-26/89).

Robert J. A. Darroca, M.D. (junior resident instructor of obstetrics and gynecology), was certified by the American Board of Family Practice (9/16/88).

Marc A. Fritz, M.D., Lt. Col, USAF, MC (associate professor of obstetrics and gynecology), and **Percy L. Frasier, M.D.** (assistant clinical professor of obstetrics and gynecology), received the Distinguished Faculty Award at the 1988 Department of Obstetrics and Gynecology 11th annual Residents' Christmas Party (12/15/88).

Felix Garfunkel, M.D. (associate clinical professor of radiological sciences) received the Roentgen Disciples Award presented annually by the Department of Radiological Sciences in recognition of excellence in teaching and research in the radiological sciences. Previous award winners in the department's clinical faculty include Dick Lyle, M.D. (1982); Kenneth Kattan, M.D. (1983); William Bretz, M.D. (1984); Gerald Gelford, M.D. (1985); Frank Johnson, M.D. (1986); Konrad Kircher, M.D. (1987); and

Ching Po Li, M.D. (1988).

Roger M. Glaser, Ph.D. (professor and acting chair of rehabilitation medicine and restorative care) was appointed to the National Institutes of Health special study section for merit review of orthopedics and rehabilitation grant applications, Washington, D.C. (6/89); and the National Board of Medical Examiners multidisciplinary task force to develop questions about the musculoskeletal system for the comprehensive Part 1 examination.

Mary Ann Hoffman, M.A. (special and general collections librarian), was elected vice-president/president-elect of the Ohio Academy of Medical History. She will serve as vice-president until 1992 and then as president from 1992-93. Hoffman was also elected to the Council of the Medical Museum Association (5/89-5/91).

Kendall Kane, M.D. (associate clinical professor of pathology), received the Sunderman Award as clinical scientist of 1988 at the Association of Clinical Scientists meeting in Hartford, CT (11/10/88). The award is named for Dr. F. William Sunderman, Sr., founder of the association and its director of education.

Marshall B. Kapp, J.D., M.P.H. (professor of medicine in society), joined the editorial review board of *Perspectives in Healthcare Risk Management*, published by the American Society of Healthcare Risk Management of the American Hospital Association (3/89).

Timothy D. Markus, M.D. (clinical instructor of medicine), was certified in general internal medicine by the American Board of Internal Medicine (8/88).

Sidney F. Miller, M.D. (associate clinical professor of surgery), was elected to a three-year term as vice-chair of the Ohio

Publications and Presentations

Anatomy

PRESENTATIONS **Joel L. Cohen, Ph.D.**, and **Daniel T. Organisciak, Ph.D.**, "Spectral Sensitivity in the Juvenile Lemon Shark: ERG, Ganglion Cell Recordings and Visual Pigment Data," Association for Research in Vision and Ophthalmology annual meeting, Sarasota, FL (4/30-5/5/89). **Jane N. Scott, Ph.D.**, and **Lothar Jennes, Ph.D.**, "Binding of Atrial Natriuretic Peptide to Neural Tissue in the Rat Fetus," American Association of Anatomists, New Orleans, LA (4/8-12/89).

Biochemistry

PUBLICATIONS **Michael Leffak, Ph.D.**, and **C. David James, Ph.D.**, "Opposite Replication Polarity of the Germ Line c-myc Gene in HeLa Cells Compared with that of Two Burkitt Lymphoma Cell Lines," *Molecular and Cellular Biology* (2/89).

Dermatology

PRESENTATIONS **Arnold Schroeter, M.D.**, "An Inflammatory Immunopathogenesis of Androgenic Alopecia,"

Baylor International Hair Symposium, Dallas, TX (4/7-8/89); "Immunopathologic Findings of Actinic Elastosis Cutaneous Immunopathology of Vasculitis," "The Dermatopathologic Finding of Androgenic Alopecia," and program chair, "Immunopathology of the Skin: Update," VI World Congress of Dermatology, Rio de Janeiro, Brazil, (4/29-5/3/89).

Family Practice

PUBLICATIONS **Michael F. Bosworth, D.O.**, and **Cynthia G. Olsen-Noll, M.D.**, "Anorexia and Weight Loss in the Elderly," *Postgraduate Medicine* (2/15/89). **Cynthia G. Olsen-Noll, M.D.**, and **Michael F. Bosworth, D.O.**, "Alcohol Abuse in the Elderly," *American Family Physician* (4/89). **PRESENTATIONS** **James P. Rafferty, Ph.D.**, and **John R. Rudisill, Ph.D.**, "Burnout in Academic Physicians," Society for Teachers of Family Medicine national convention, Denver, CO (5/2/89); "Academic Burnout," Michigan State Primary Care Post-Doctoral Fellowship Program, Michigan State University, East Lansing, MI (5/15-16/89). **John R. Rudisill, Ph.D.**, panelist "Post Traumatic Stress Disorders," Access Dayton, TV Cable Channel 30 (1/10/89);

"The Interview and Active Listening," Ohio Volunteer Action Association, Cincinnati, OH (5/17/89). **John R. Rudisill, Ph.D., Paul Rodenhauser, M.D., and Albert Painter, Psy.D.,** "Conceptual Tools for Psychotherapy Supervision," American Psychological Association national convention, San Francisco, CA (5/7/89).

Medicine

PUBLICATIONS **Anil K. Mandal, M.D.,** "Increased Hematocrit Mitigates Ischemic Renal Damage in the Splenectomized Dog," *The American Journal of Medical Sciences* (3/89); "Diagnosis and Management of Renal Disease and Hypertension," *American Journal of Kidney Diseases* (3/89); (co-author) *Diagnosis and Management of Renal Disease and Hypertension* (Lea & Febiger: Philadelphia, PA). **Lawrence E. Mieczkowski, M.D.,** letter "Lovastatin and Visual Changes," *Annals of Internal Medicine* (3/1/89); "The Physician and the Computer: A Tale of the Future," *Ohio Medicine* (4/89). **Cassandra C. Paul, Ph.D.,** and **Michael A. Baumann, M.D.,** "Impaired Interleukin-2 Production by T-Lymphocytes in Polycythemia Vera," *Journal of Clinical Laboratory Analysis* (3/89); "Cutaneous T Cell Lymphoma With Suppressor Phenotype and Function," *Southern Medical Journal* (4/89). **PRESENTATIONS** **Lawrence E. Mieczkowski, M.D.,** program chair "Physician's Cholesterol Education Program," American Heart Association, Dayton, OH (4/25/89). **Sylvan Lee Weinberg, M.D.,** "Repeat CABG: Operative Morbidity and Mortality—A Longterm Follow-up," American College of Cardiology scientific session, Anaheim, CA (3/22/89).

Medicine in Society

PUBLICATIONS **Marshall B. Kapp, J.D., M.P.H.,** "Weighing the Costs and Benefits of Regulation: A Book Review Essay," *Law, Medicine and Health Care* (Spring/89); "Legal Concerns Affecting Non-Profit Community Agencies that Serve the Elderly," *Quality Review Bulletin* (3/89); "The Malpractice Crisis: Relevance for Geriatrics," *Journal of the American Geriatrics Society* (4/89); "Enforcing Patient Preferences: Linking Payment for Medical Care to Informed Consent," *Journal of the American Medical Association* (4/7/89); "Informed Consent for Federal Clinicians," *Military Medicine* (5/89); "Solving the Medical Malpractice Problem: Difficulties in Defining What Works," *Law, Medicine and Health Care* (Summer/89); "Representing Older Persons: Ethical Challenges," *Florida Bar Journal* (6/89); (co-author) "Advocacy for the Mentally Impaired Elderly: A Case Study Analysis," *American Journal of Law and Medicine* (89). **PRESENTATIONS** **Marshall B. Kapp, J.D., M.P.H.,** "The Cost of Perinatal Litigation to the Professional, the Consumer and Society," Ohio Perinatal Association annual meeting, Columbus, OH (3/9/89); "Malpractice Reforms: Impact on Geriatrics and Gerontology," American Society on Aging annual meeting, Washington, D.C. (3/21/89); "Withholding Resources at the End of Life: Legal Issues," American College of Physicians annual meeting, San Francisco, CA (4/15/89); workshops "Cost Containment: Who Says We Can't Have It All?" and "Legal Issues in the Care of Patients," Human Values in Medicine Program, Northeastern Ohio Universities College of Medicine, Rootstown, OH (4/27–28/89); "Keynote Address: Legal Issues and Opportunities in Continuity of Care," Ohio Continuum of Care Council annual meeting, Mohican State Park, OH (5/7/89).

Neurology

PUBLICATIONS **Daniel J. Lacey, Ph.D., M.D.,** "Status Epilepticus in Children and

Adults," *Journal of Clinical Psychiatry* (12/88).

Ophthalmology

PUBLICATIONS **John D. Bullock, M.D.,** "Orbital Tumors in Children," *Ophthalmic Plastic and Reconstructive Surgery* (3/89). **PRESENTATIONS** **John D. Bullock, M.D.,** "Ophthalmologists Famous for Other Pursuits," "Orbital Cellulitis," Mayo Clinic, Rochester, MN (3/9–10/89).

Pathology

PRESENTATIONS **Gordon K. Murphy, M.D.,** "Suicides: Some That Were; Some That Weren't," Indiana Commission on Forensic Sciences annual seminar, Indianapolis, IN (4/27/89).

Pediatrics

PUBLICATIONS **Richard N. Baumgartner, Ph.D., Wm. Cameron Chumlea, Ph.D., Shumei Guo, Ph.D., and Alexander F. Roche, M.D., Ph.D., D.Sc.,** "Changes With Age in Skinfold Thickness in Mexican-American Children in the Hispanic Health and Nutrition Examination Survey," and "Changes With Age in Fat Patterning in Mexican-American Children in the Hispanic Health and Nutrition Examination Survey," *American Journal of Physical Anthropology* (4/89). **Richard N. Baumgartner, Ph.D., Roger M. Siervogel, Ph.D., Wm. Cameron Chumlea, Ph.D., and Alexander F. Roche, M.D., Ph.D., D.Sc.,** "Associations Between Plasma Lipoprotein Cholesterols, Adiposity and Adipose Tissue Distribution During Adolescence," *International Journal of Obesity* (2/89). **Wm. Cameron Chumlea, Ph.D., and Alexander F. Roche, M.D., Ph.D., D.Sc.,** "Anthropometric Approaches to the Nutritional Assessment of the Elderly," *Nutrition, Aging, and the Elderly* (New York: Plenum Press, 1989); "The FELS Method of Assessing the Skeletal Maturity of the Hand-Wrist," *American Journal of Human Biology* (4/89). **Shumei Guo, Ph.D., Alexander F. Roche, M.D., Ph.D., D.Sc., Richard N. Baumgartner, Ph.D., and Wm. Cameron Chumlea, Ph.D.,** "On the Application of Kernel Regression for Smoothing Reference Data," *American Journal of Physical Anthropology* (4/89). **Shumei Guo, Ph.D., Alexander F. Roche, M.D., Ph.D., D.Sc., and Wm. Cameron Chumlea, Ph.D.,** "Predicting Fat-Free Mass (FFM) and Percent Body Fat (%BF) from Anthropometry, Resistance and Reactance," *American Journal of Human Biology* (2/89). **Alexander F. Roche, M.D., Ph.D., D.Sc., and Shumei Guo, Ph.D.,** "Weight and Recumbent Length from 1 to 12 Months of Age: Reference Data for 1-month Increments," *American Journal of Clinical Nutrition* (4/89). **Alexander F. Roche, M.D., Ph.D., D.Sc., Shumei Guo, Ph.D., Richard N. Baumgartner, Ph.D., and Wm. Cameron Chumlea, Ph.D.,** "Reference Data for Weight, Stature, and Weight/Stature² in Mexican-Americans from the Hispanic Health and Nutrition Examination Survey," *American Journal of Physical Anthropology* (2/89). **Roger M. Siervogel, Ph.D., Richard N. Baumgartner, Ph.D., Alexander F. Roche, M.D., Ph.D., D.Sc., and Wm. Cameron Chumlea, Ph.D.,** "Maturity and Its Relationship to Plasma Lipid and Lipoprotein Levels in Adolescents: The Fels Longitudinal Study," *American Journal of Human Biology* (2/89). **Roger M. Siervogel, Ph.D., Alexander F. Roche, M.D., Ph.D., D.Sc., Shumei Guo, Ph.D., and Wm. Cameron Chumlea, Ph.D.,** "Patterns of Change in Adiposity During Childhood and Their

Relation to Adiposity at 18 Years," *American Journal of Human Biology* (2/89).

PRESENTATIONS The following presentations were made at the American Association of Physical Anthropologists annual meeting, San Diego, CA (4/7/89). **Richard N. Baumgartner, Ph.D.,** "Changes With Age in Fat Patterning in Mexican-American Children in the Hispanic Health and Nutrition Examination Survey." **Shumei Guo, Ph.D., Alexander F. Roche, M.D., Ph.D., D.Sc., Richard N. Baumgartner, Ph.D., and Wm. Cameron Chumlea, Ph.D.,** "On the Application of Kernel Regression for Smoothing Reference Data." **Alexander F. Roche, M.D., Ph.D., D.Sc.,** "Reference Data for Weight, Stature and Weight/Stature² in Mexican-Americans from the Hispanic Health and Nutrition Examination Survey."

Pharmacology

PUBLICATIONS **James B. Lucot, Ph.D.,** "Blockade of 5-Hydroxytryptamine₃ Receptors Prevents Cisplatin-Induced But Not Motion- or Xylazine-Induced Emesis," *Pharmacology, Biochemistry and Behavior* (1/89). **James B. Lucot, Ph.D., and George H. Crampton, Ph.D.,** "Cerebrospinal Fluid Constituents Vary With Susceptibility to Motion Sickness," *Life Sciences* (89).

Postgraduate Medicine and Continuing Education

PUBLICATIONS **Ronald J. Markert, Ph.D.,** "A Research Methods and Statistics Journal Club for Residents," *Academic Medicine* (4/89). **Ronald J. Markert, Ph.D., Anthony J. Parisi, Ph.D., H. Verdain Barnes, M.D., Steven Cohen, M.D., Kim Goldenberg, M.D., Lawrence E. Mieczkowski, M.D., Margaret Dunn, M.D., and Roger M. Siervogel, Ph.D.,** "Medical Student, Resident, and Faculty Use of a Computerized Literature Searching System," *Bulletin of the Medical Library Association* (4/89).

Psychiatry

PUBLICATIONS **Bettina B. Kilburn, M.D.,** "The Polymorphous Perverse Revisited," *Contemporary Psychiatry* (12/88). **Paul Rodenhauser, M.D.,** book review "Selective Attention to Attention Deficiency," *Contemporary Psychiatry* (3/89). **Randy A. Sansone, M.D.,** "Family Environment in Anorexia Nervosa and Bulimia," *International Journal of Eating Disorders* (1/89). **PRESENTATIONS** **Robert A. Barcus, Ph.D.,** "Healthy Relationships for Parents of Adolescents," Jewish Family Service, Dayton, OH (3/9/89). **James P. Gibfried, M.D.,** "An Overview of Psychotropic Medication for Pharmacists," Clark County Pharmacists Association, Springfield, OH (1/24/89). **Patricia S. Merriman, Ph.D.,** "Images of Women," Womens Studies Program, University of Dayton, Dayton, OH (2/15/89). **Paul Rodenhauser, M.D.,** "Workshop for New Residency Education Directors" and "Training Residents in Interviewing Skills: The Integration of the DSM-III-R, The Mental Status, and Psychodynamic Issues," American Association of Directors of Psychiatric Residency Training, San Diego, CA (1/19–20/89); workshop "Psychotherapy Supervision," Association for Academic Psychiatry annual meeting, Atlanta, GA (3/4/89); workshop "What You Need to Know: Strategies for Survival," American College of Mental Health Administration annual meeting, Santa Fe, NM (3/30/89). **Paul Rodenhauser, M.D., Randy A. Sansone, M.D., and Kenneth Khatain, M.D.,** "Religion and Residency Education in Psychiatry," American Association of Directors of Psychiatric Residency Training, San Diego, CA (1/20/89). **Randy A. Sansone, M.D.,** "An Overview of Depression

and Its Treatment," Pharmaceutical Sales Representatives, Merrell Dow Pharmaceuticals Sales Training School, Cincinnati, OH (1/13/89).

Radiological Sciences

PUBLICATIONS **Norman A. Flaxman, D.M.D.,** "Controversies in Dental Premedication," *VA Practitioner* (1/89).

Surgery

PUBLICATIONS **Michael C. Albert, M.D., and Peter S. Barre, M.D.,** "A Schaphoid Fracture Associated with a Displaced Distal Radial Fracture in a Child," *Clinical Orthopedics* (3/89). **Margaret M. Dunn, M.D.,** book chapters "Common Hernias," "Benign Breast Disease," and "Peripheral Artery Disease," *Clinical Medicine: Selected Problems with Pathophysiologic Correlations* (New York: Year Book Publishers, 1988). **Stephen R. Goll, M.D.,** "Depth of Intraspinal Wire Penetration During Passage of Sublaminar Wires," *Spine* (5/88); "The Treatment of Patellar Fractures After Total Knee Arthroplasty," *Clinical Orthopaedics and Related Research* (11/88). **Thomas A. Heck, M.D.,** "Gastric Adenocarcinoma: A Disease in Transition," *Archives of Surgery* (3/89). **Hobart E. Klaaren, M.D., and H. F. Pompe Van Meerdervoort, M.D.,** "Traumatic Avulsion of the Ligamentum Teres without Dislocation of the Hip," *The Journal of Bone & Joint Surgery* (7/88). **Juan M. Palomar, M.D.,** "Correction of Intrinsic Penile Chordee with a Ventral Penile Graft of Fascia Lata," *The Journal of Urology* (7/88). **James B. Peoples, M.D.,** book chapters "Gallbladder Disease" and "Venous Insufficiency," *Clinical Medicine: Selected Problems with Pathophysiologic Correlations* (New York: Year Book Publishers, 1988); book chapter "The Biliary Tract," *Essentials of General Surgery* (Baltimore: Williams and Wilkins, 1988). **Ramchandra Ramnath, M.D.,** letter *Plastic Surgery Outlook* (3/89). **Walter A. Reiling, Jr., M.D.,** "Malpractice Crisis: A Personal Perspective," *Ohio Medicine* (2/89). **Peter M. Sanfelippo, M.D.,** "The Role of Intra-Aortic Balloon Counterpulsation in Myocardial Pump Failure," *Pace* (6/88). **Kenneth S. Scher, M.D.,** "Sartorius Transposition to Protect Vascular Grafts in the Groin," *The American Surgeon* (3/89). **Kenneth S. Scher, M.D., and Jack Bernstein, M.D.,** (co-author) "Impaired Clearance of *Escherichia coli* Bacteremia in Early Biliary Obstruction," *The American Journal of Surgery* (2/89). **Randall R. Wroble, M.D.,** "The Stabilized Lachman Test," *Clinical Orthopaedics & Related Research* (12/88). **John Wyrick, M.D., Dominic J. Bagnoli, B.S., Steve J. Gabel, M.D., Peter S. Barre, M.D., and Kenneth S. Scher, M.D.,** "Effect of Bupivacaine on Wound Healing in a Rabbit Model," *American College of Surgeons 1988 Surgical Forum* (88). **PRESENTATIONS** **Rank O. Dawson, Jr., M.D., Sidney F. Miller, M.D., and Barbara Hull, Ph.D.,** "Buccal Scraping: A New Method of Recovery of Donor Cells for Culturing Skin Equivalents," Plastic Surgery Senior Resident's Conference, Indianapolis, IN (4/30–5/2/89). **Sidney F. Miller, M.D., James P. Watson, M.D., and Willard Yarema, M.S.,** "The Predictive Value of Biodrainage Analysis in Symptomatic Patients Without Radiographic Evidence of Biliary Tract Disease," Society of Surgery of the Alimentary Tract meeting, Washington, D.C. (5/13–17/89). **Edward J. Picardi, M.D.,** "Effects of Streptokinase on Experimental Mesenteric Venous Thrombosis in a Feline Model," Society of Clinical Surgeons Resident Research Conference, Baltimore, MD (2/11/89). **Laszlo Posevitz, D.O.,** symposium chair, Second Annual Symposium on Laser Applications in Vascular Surgery, Grandview Hospital, Dayton, OH (4/27–28/89).

VS Digest

Leadership Team

Dr. William Marshall, clinical professor of medicine, was installed as president of the Ohio State Medical Association at its annual May meeting held in Dayton. At the same meeting, **Barbara Marshall** was installed as president of the OSMA Auxiliary. It's the first time a husband and wife team have served in tandem as leaders of the two statewide organizations. The Marshalls filled similar leadership roles for the Montgomery County Medical Society and its Auxiliary in 1983. Bill Marshall's goals for the OSMA in the coming year include addressing the health care needs of the homeless, providing leadership in issues of



Dr. William Marshall medical ethics, and encouraging legislative action supporting basic, employer-provided health insurance for workers. Barbara Marshall's agenda for the OSMA Auxiliary will focus on educational issues important to teens, including teen pregnancy, AIDS education, and the health hazards of too much sun exposure.

Academy Awards

Dr. Dennis Barber, associate professor of obstetrics and gynecology, received the Outstanding Achievement in Medical Education and Research Award at the Wright State University Academy of Medicine



Dr. Dennis Barber annual dinner in May. The award recognizes a lifetime achievement in teaching and research. Barber was named acting chair of the Department of Obstetrics and Gynecology in July following the retirement of Dr. John Halki. Other Academy of Medicine award winners included **Dr. William Abramson**, clinical professor of pathology, the Professional Excellence Award; **Dr. Michael Baumann**, assistant professor of medicine, the Excellence in Medical Education and Research Award; **Dr. Mary Lou Zwiesler**, resident instructor of family practice, the Outstanding Resident Award; and **Dr. Mark Hirko**, class of 1989 graduate, the Outstanding Senior Medical Student Award.

Halki Retires

More than two hundred people attended a reception honoring **Dr. John J. Halki**, who retired as chair of Wright State's Department of Obstetrics and Gynecology at the end of June. The reception was hosted jointly by the School of Medicine and Miami Valley Hospital. Halki joined Wright State's clinical faculty in 1975, when he was assigned to Wright-Patterson Air Force Base as commander of the USAF Medical Center. He retired from active military duty in 1981 with the rank of brigadier general, and he was appointed chair of Wright State's obstetrics and gynecology department the following year. In 1985, Halki was appointed to the department's first Nicholas J. Thompson Distinguished Professorship, which is named in honor of the late Nicholas J. Thompson, M.D., the department's founding chair.



Dr. John Halki

Scientist Honored

A recent special issue of the *American Journal of Human Biology* published papers presented at a symposium honoring **Dr. Alex Roche**, Fels professor of pediatrics and obstetrics and gynecology. The symposium was held in 1987 at the 56th annual meeting of the American Association of Physical Anthropologists in New York City. "Alex Roche has had and continues to have a significant impact on physical anthropology and human biology," writes Dr. Robert Malina of the University of Texas, guest editor of the special issue. "The proceedings of this symposium are a fitting tribute to the person we honor as a scholar and a friend."

National Leader

Dr. Kazuo Kimura, professor of pharmacology and toxicology, was elected recently as president of the American College of Clinical Pharmacology for a three-year term. Kimura is a fellow of the college, which promotes the science of clinical pharmacology in all its phases. Locally, Kimura is president of United Health Services of United Way in Dayton.



Dr. Kazuo Kimura

New Department

Dr. Roger Glaser has been appointed professor and acting chair of the School of Medicine's newest department, Rehabilitation Medicine and Restorative Care. The new department incorporates the former department of Physical Medicine and Rehabilitation, and its research and development division is based at the Laboratory of Applied Physiology at the Miami Valley Research Park's Wright State University Research Center in Kettering. Glaser joined Wright State's faculty in 1972, and he continues to hold a joint faculty appointment as professor of physiology and biophysics.

WIP Manager

Phyllis A. Cole has been appointed program manager of the Weekend Intervention Program, the education and counseling program at Wright State School of Medicine for persons convicted of drunk driving. Cole will be responsible for the daily management of the WIP, which has counseled more than 19,000 clients since the program began in 1978. Cole joined the staff of Wright State's Substance Abuse Intervention Programs in 1986 as an education specialist. ☐

Leader

Continued from page 1

factors, according to Dr. John Gillen, professor and chair of family practice. "We've had tremendous support for our educational program from area hospitals and family physicians in the community," he says. More than 180 family physicians in the Miami Valley area participate in the Department of Family Practice's voluntary faculty.

"Our students are introduced to family practice early in the curriculum, through the Introduction to Clinical Medicine course as well as selective courses, which are often interdisciplinary efforts. They see how extensively family physicians work with other physicians, and that's had a positive impact," Gillen says.

"Wright State's minority enrollment record is an excellent one," says Dr. Ronald Fletcher, director of the Ohio Department of Health and assistant clinical professor of medicine here. "Medical schools such as Wright State have realized that they must intervene earlier in the educational system, even earlier than high school, to encourage and prepare minority students to enter medicine and other health care professions."

Fletcher notes that Ohio's major cities include neighborhoods considered "health manpower shortage areas." "It's hard to find primary care physicians who want to practice in these inner city areas," he says. "A physician who comes from that environment, be it a black, a Hispanic, or an Asian neighborhood, is more likely to make a commitment to go back and practice there." ☐

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